STATEMENT OF WORK

for

Technical Assistance to Environmental Restoration
in the Preparation of the February
Presentation to the Water Quality Control Commission

November 9, 1990

prepared by:
Environmental Monitoring and Assessment Division
Environmental Restoration Department

Introduction

A letter was written from Wright Water Engineers (WWE) to the Environmental Monitoring and Assessment Division (EMAD) at Rocky Flats, concerning the February Groundwater Hearing Presentation to the Water Quality Control Commission (WQCC). The letter made suggestions as to which topics should be addressed at the hearing to best present Rocky Flats' efforts in groundwater protection and characterization. This SOW will outline specific topics identified in the letter on which EMAD is requesting technical assistance from WWE.

Technical Requirements

WWE recommended a list of subjects to be presented to the WQCC either through a site visit or in presentation form. These suggestions were listed on page 2 of the letter, and numbered 1-7. Within the 7 topics, EMAD has identified the following specific technical requirements for WWE:

1. Concerning the hydrology and hydrogeology of the Rocky Flats area, WWE is requested to provide a piezometric surface contour map for the alluvial groundwater. All other geologic and hydrogeologic information currently exists within EMADs files.

2. The assessment of principal aquifers and the influence of contamination on these aquifers has been done, identifying which wells show contamination and in what concentrations. Further assessments of aquifer characteristics such as flow, geologic formations, migration rates, and water levels also exist; therefore, an assessment of this information will not be needed.

3. Extent and migration of contamination at the major sites is already available within existing ER Remedial Investigation (RI) Reports and other documents; therefore, will not need repeating.

4. To address whether or not contaminated groundwater is impacting Woman and Walnut Creeks a map identifying which surface water stations are actually groundwater seeps should be created. Also, determine which aquifer each seep is associated with, and do a comparison of the appropriate groundwater data to the corresponding seep data. Investigate seeps downgradient of the holding ponds initially to assure an assessment of potential impacts to downgradient reservoirs.

5. Exact implications of the regulations requiring "horizontal compliance" should be identified. Make an assessment of the regulation and apply it to the Rocky Flats hydrogeologic setting.

6. Information on groundwater recharge, groundwater interaction with surface water, and aquifer communication exists within EMAD; therefore, no further assessments are necessary.

7. Review and identify the most recent decisions made concerning Great Western Reservoir and the remedial actions agreed upon between Rocky Flats, the Clean Water Act Division (CWAD), and the outside political sector. Assess the procedures used to reach these decisions and identify the political implications on the project.

Other:

Create a list of Remedial Investigation documents along with a summary of what information can be found in that document.

Deliverables

A. Piezometric Contour map for alluvial aquifers at Rocky Flats.

B. A list of the EG&G Environmental Restoration Remedial Investigation Reports identifying the extent and migration of contamination at the major remedial action sites at Rocky Flats.

C. A map identifying all surface water seeps. Also, provide a summary of seep data comparing it to data from an associated aquifer.

E. An assessment of the "horizontal compliance" regulation for groundwater and how it would apply to the Rocky Flats hydrogeologic setting.

F. Provide a summary of the remedial action plans for Great Western Reservoir including a review of how the decision was influenced politically.

Note: Each of the documents listed will be given a brief discussion of what information each document contains relating to groundwater characterization.

Schedule

Draft deliverables due to EMAD December 3, 1990

Review and comment by EMAD December 3 - 6, 1990

Presentation of final deliverables to EMAD December 12, 1990

Site tour and presentation to the WQCC tentatively set for December 20, 1990